2

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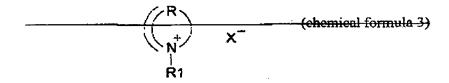
## AMENDMENTS TO THE CLAIMS

Please cancel claims 12 and 15-17 without prejudice or disclaimer.

- 1. (Canceled)
- 2. (Currently amended) A nonaqueous electrolyte, comprising: an organic solvent and a lithium salt dissolved in the organic solvent; and a quaternary ammonium salt in an amount of 0.06 mol/L or greater and 0.5 mol/L or less, the quaternary ammonium salt having a structure represented by any of (chemical formula 1), (chemical formula 2), and (chemical formula 3):

(wherein R1, R2, R3, and R4 each are either an alkyl group having 1-6 carbon atoms or an alkyl group in which at least part of the hydrogen atoms each has been replaced by a fluorine atom; and X- is a fluorine-containing anion, and wherein R1-R2-R3-R4 is excluded),

(wherein R is a divalent organic linking group having a main chain which has 4-5 atoms and is constituted of at least one member selected from carbon, oxygen, nitrogen, sulfur, and phosphorus; R1 and R2 each are either an alkyl group having 1-6 carbon atoms or an alkyl group in which at least one part of the hydrogen atoms each has been replaced by a fluorine atom; and X is a fluorine-containing anion);



3

(wherein R is an organic linking group or an organic linking group forming an aromatic ring, the organic linking groups each having a main chain which has 4-5 atoms and is constituted of at least one member selected from carbon, oxygen, nitrogen, sulfur, and phosphorus and having one single-bond end and one double-bond end; R1 is an alkyl group having 1-6 carbon atoms or an alkyl group in which at least part of the hydrogen atoms each has been replaced by a fluorine atom; and X is a fluorine containing anion).

- 3. (Previously presented) The nonaqueous electrolyte of claim 2, wherein said organic solvent comprises one or more organic solvents selected from the group consisting of ethylene carbonate, propylene carbonate, butylene carbonate,  $\gamma$ -butyrolactone, and  $\gamma$ -valerolactone.
- 4. (Previously presented) The nonaqueous electrolyte of claim 2, wherein the nonaqueous electrolyte comprises one or more members selected from the group consisting of  $BF_4$ ,  $PF_6$ ,  $CF_3SO_3$ ,  $N(CF_3SO_2)_2$ ,  $N(C_2F_5SO_2)_2$ ,  $N(CF_3SO_2)(C_4F_9SO_2)$ ,  $C(CF_3SO_2)_3$ , and  $C(C_2F_5SO_2)_3$ .
- 5. (Previously presented) A nonaqueous-electrolyte battery, comprising:
  a positive electrode, a negative electrode, and a nonaqueous electrolyte according to claim
  2.
- 6. (Previously presented) The nonaqueous-electrolyte battery of claim 5, wherein the negative electrode comprises a graphite.
- 7. (Previously presented) The nonaqueous-electrolyte battery of claim 5, further comprising: a sheath formed over said positive and negative electrodes and said electrolyte, said sheath comprising a metal/resin composite material.
- 8. (Canceled)
- 9. (Previously presented) A nonaqueous-electrolyte battery which comprises a positive electrode, a negative electrode, and a nonaqueous electrolyte according to claim 3.

4

- 10. (Previously presented) A nonaqueous-electrolyte battery which comprises a positive electrode, a negative electrode, and a nonaqueous electrolyte according to claim 4.
- 11. (Previously presented) The nonaqueous electrolyte of claim 2, wherein said organic solvent comprises a member selected from the group consisting of propylene carbonate and butylene carbonate.

## 12. (Canceled)

- 13. (Previously presented) The nonaqueous electrolyte of claim 2, wherein the quaternary ammonium salt having a structure represented by chemical formula 2 comprises a combination of an anion and a member selected from the group consisting of a pyrrolidinium cation, piperidinium cation, and pyrrolium cation.
- 14. (Previously presented) The nonaqueous electrolyte of claim 13, wherein the pyrrolidinium cation comprises a member selected from the group consisting of a 1,1-dimethylpyrrolidinium ion, 1-ethyl-1- methyl- pyrrolidinium ion, 1-methyl-1-propylpyrrolidinium ion, and 1-butyl-1-methylpyrrolidinium ion,

wherein the piperidinium cation comprises a member selected from the group consisting of a 1,1-dimethylpiperidinium ion, 1-ethyl-1-methylpiperidinium ion, 1-methyl-1-propylpiperidinium ion, and 1-butyl-1-methylpiperidinium ion, and

wherein the pyrrolium cation comprises a member selected from the group consisting of a 1,1-dimethylpyrrolium ion, 1-ethyl-1-methylpyrrolium ion, 1-methyl-1-propylpyrrolium ion, and 1-butyl-1-methylpyrrolium ion.

## 15-17. (Canceled)

18. (Previously presented) The nonaqueous electrolyte of claim 2, wherein said amount of said quaternary ammonium salt is 0.1 mol/L or greater and 0.35 mol/L or less.

5

19. (Previously presented) The nonaqueous electrolyte of claim 2, wherein said lithium salt comprises a member selected from the group consisting of LiBF<sub>4</sub>, LiPF<sub>6</sub>, LiCF<sub>3</sub>SO<sub>3</sub>, LiN(CF<sub>3</sub>SO<sub>2</sub>)<sub>2</sub>, LiN(C<sub>2</sub>F<sub>5</sub>SO<sub>2</sub>)<sub>2</sub>, LiN(CF<sub>3</sub>SO<sub>2</sub>)(C<sub>4</sub>F<sub>9</sub>SO<sub>2</sub>), LiC(CF<sub>3</sub>SO<sub>2</sub>)<sub>3</sub>, and LiC(C<sub>2</sub>F<sub>5</sub>SO<sub>2</sub>)<sub>3</sub>.

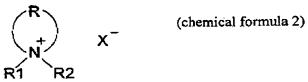
## 20. (Currently amended) A nonaqueous-electrolyte battery, comprising:

a power generating unit comprising a positive electrode, a negative electrode, and a separator interposed between said positive and negative electrodes; and

a nonaqueous electrolyte impregnated into said power generating unit, said nonaqueous electrolyte comprising:

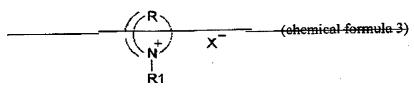
an organic solvent and a lithium salt dissolved in the organic solvent; and a quaternary ammonium salt in an amount of 0.06 mol/L or greater and 0.5 mol/L or less, the quaternary ammonium salt having a structure represented by any of (chemical formula 1); (chemical formula 2); and (chemical formula 3):

(wherein R1, R2, R3, and R4 each are either an alkyl group having 1-6 carbon atoms or an alkyl group in which at least part of the hydrogen atoms each has been replaced by a fluorine atom; and X is a fluorine containing union, and wherein R1-R2-R3-R4 is excluded),



(wherein R is a divalent organic linking group having a main chain which has 4-5 atoms and is constituted of at least one member selected from carbon, oxygen, nitrogen, sulfur, and phosphorus; R1 and R2 each are either an alkyl group having 1-6 carbon atoms or an alkyl group in which at least one part of the hydrogen atoms each has been replaced by a fluorine atom; and X is a fluorine-containing anion).

6



(wherein R is an organic linking group or an organic linking group forming an aromatic ring, the organic linking groups each having a main chain which has 4-5 atoms and is constituted of at least one member selected from earbon, oxygen, nitrogen, sulfur, and phosphorus and having one single bond end and one double-bond end; R1 is an alkyl group having 1-6 carbon atoms or an alkyl group in which at least part of the hydrogen atoms each has been replaced by a fluorine atom; and X is a fluorine-containing anion).